Title: Self-Updateable Longest Prefix Matching Method and Apparatus
Inventor(s): Jintae Oh
Appln. No. To be assigned
Docket # 41420/27385
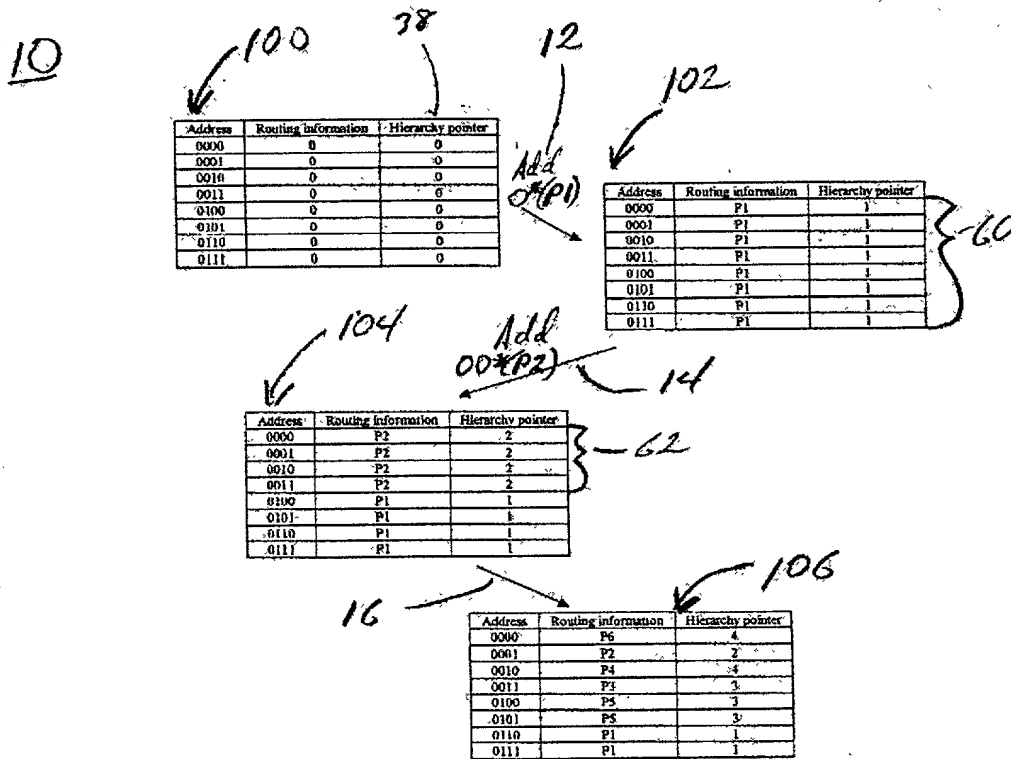

FIG. 1

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Address	Routing information	Hierarchy pointer
0000	P6	4
0001	P2	2
0010	P4	4
0011	P3	3
0100	P5	3
0101	P5	3
0110	P1	1
0111	P1	1

18 (Remove 001*) 108

Address	Routing information	Hierarchy pointer
0000	P6	4
0001	P2	2
0010	P4	4
0011	P2	2
0100	P5	3
0101	P5	3
0110	P1	1
0111	P1	1

FIG. 2

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Address	Routing information	Hierarchy pointer	Pointer
0000	P6	4	
0001	P2	2	New Pointer
0010	P4	4	
0011	P3	3	
0100	P5	3	
0101	P5	3	
0110	P1	1	
0111	P1	1	

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Address	Routing information	Hierarchy pointer	Pointer
0000	P7	2	
0001	P7	2	
0010	P7	2	
0011	P7	2	
0100		0	
0101		0	
0110		0	
0111		0	
1000		0	
1001		0	
1010		0	
1011		0	
1100		0	
1101		0	
1110		0	
1111		0	

FIG 3

Title: Self-Updateable Longest Prefix Matching Method and Apparatus
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Address	Routing information	Hierarchy pointer	Pointer	odd	even
0000	P6	4	X	0	0
0001	P2	2	New Pointer	1	0
0010	P4	4	X	0	0
0011	P3	3	X	0	0
0100	P5	3	X	0	0
0101	P5	3	X	0	0
0110	P1	1	X	0	0
0111	P1	1	X	0	0

Address	Routing information	Hierarchy pointer	Pointer
0000	P7	2	
0001	P7	2	
0010	P7	2	
0011	P7	2	
0100		0	
0101		0	
0110		0	
0111		0	
1000		0	
1001		0	
1010		0	
1011		0	
1100		0	
1101		0	
1110		0	
1111		0	

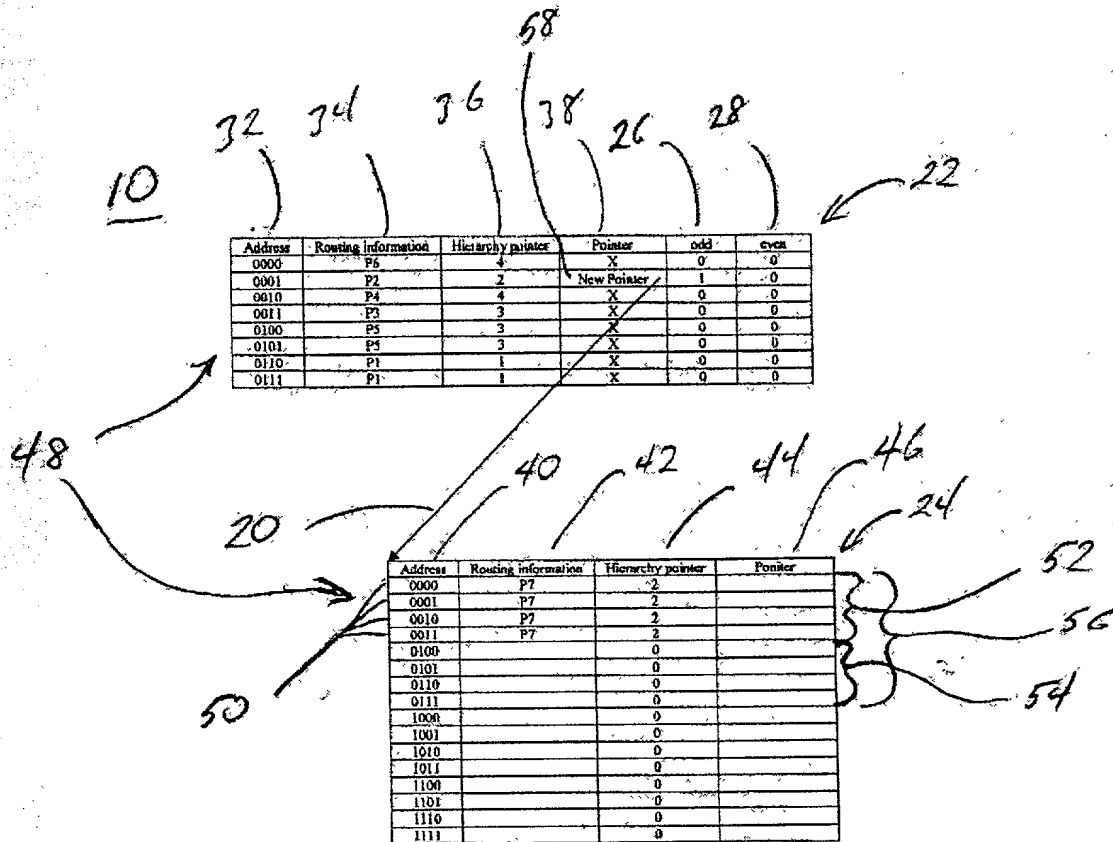FIG. 4

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Address	Routing information	Hierarchy pointer	Pointer	odd	even
0000	P6	4	X	0	0
0001	P2	2	X	0	0
0010	P4	4	X	0	0
0011	P3	3	X	0	0
0100	P5	3	X	0	0
0101	P5	3	X	0	0
0110	P1	1	X	0	0
0111	P1	1	X	0	0

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Address	Routing information	Hierarchy pointer	Pointer
0000		0	
0001		0	
0010		0	
0011		0	
0100		0	
0101		0	
0110		0	
0111		0	
1000		0	
1001		0	
1010		0	
1011		0	
1100		0	
1101		0	
1110		0	
1111		0	

FIG. 5